## DEPARTMENT OF HEALTH AND HUMAN SERVICES FOOD AND DRUG ADMINISTRATION

## PROCESSING IN STEAM IN CONTINUOUS AGITATING RETORTS (Retort Survey)

## **INSTRUCTIONS**

Complete the question blocks below. Draw a diagram of the retort or obtain one from the firm and attach it to the EIR as an exhibit. Report all pipe sizes as inside diameter (ID). Refer to 21 CFR Part 113.40(c) and pp 28-30 of LACF Guide Part 2.

If problems are found with the firm's retort equipment or processing system, refer the reader to the narrative Turbo EIR under "Objectionable Conditions and Management's Response," and include a narrative explanation of specific problems and evidence under the subheading "Supporting Evidence and Relevance." Submit the completed form as an EIR attachment.

RETORT DESCRIPTION				
RETORT NO.	*CAN SIZE	COOKER CAPACITY	STEPS/REEL	
	NO OF PRESCRIPTION	NO 05 PD500 00015D0	No of Moo ood FDO	
	NO. OF PRECOOKERS	NO. OF PRESS COOLERS	NO. OF AMOS. COOLERS	
*List the Can Size covered during	the inspection.	·	•	
	COMP	UTER CONTROLS		
DOES A COMPUTER CONTE	ROL ANY OF THE RETORT FU	INCTIONS?	Yes No N	
EXPLAIN:				
DOES THE FIRM HAVE DOC	UMENTATION ON HAND THAT	Γ INDICATES THAT THE COMPUTER	SYSTEM HAS BEEN VALIDATED?	
			Yes No	
EXPLAIN:				
IS RECORD KEEPING PART	OF THE COMPUTER FUNCTI	ON?	Yes	
IF YES, DOES THE RECORD	KEEPING COMPLY WITH 21	CFR PART 11?	Yes	
	NDIOATINO MEDOUDY IN	OL 400 THERMOMETERS (440 4	0/-1/411	
I	NDICATING MERCURY IN-	GLASS THERMOMETERS (113.4	U(C)(1))	
IS THE RETORT EQUIPPED	WITH AT LEAST ONE MERCU	IRY IN-GLASS (MIG) THERMOMETER	?? Yes ☐ No ☐	
IS THE RETORT EQUIPPED	WITH ANOTHER TYPE OF TE	MPERATURE INDICATING DEVICE?	Yes	
IF YES, DESCRIBE THE IND				
ARE SCALE DIVISIONS EAS	SILV READARLE TO 1°F ( 5°C)	?	Yes	
		. (TEMP. RANGE ML		
	TED SCALE. SEE LACF GUIDI		TOT NOT EXCLED IT I (0 0) I EII	
DATE LAST TESTED FOR AC	CCURACY:			
INSTALLATION AND AT LEAS STANDARD USED, METHOD	ST ONCE A YEAR THEREAFT. OUSED, AND PERSON PERFO	AGAINST A KNOWN ACCURATE STA ER; RECORDS OF ACCURACY CHEC DRMING THE TEST <b>SHOULD</b> BE MAII	CKS THAT SPECIFY DATE, NTAINED. EACH THERMOMETER	

FORM FDA 3511c (3/06) PAGE 1 PSC Graphics (301) 443-1090 EF

ACCURACY.)

STANDARD USED FOR THE TEST:				
NAME AND TITLE OF PERSON WHO PERFORMED TEST:				
IS THE LAST TEST DATE IDENTIFIED ON THE THERMOMETER?				
WERE CALIBRATING TEST RECORDS PREPARED/MAINTAINED?				
DESCRIBE THE FIRM'S ACTIONS REGARDING MIG THERMOMETERS THAT WERE OUT OF CALIBRATION:				
IS THE MERCURY UNDIVIDED?				
(A THERMOMETER THAT HAS A DIVIDED MERCURY COLUMN OR THAT CANNOT BE ADJUSTED TO THE STANDARD <u>SHALL</u> BE REPAIRED OR REPLACED.)				
WHEN MIG THERMOMETERS ARE FOUND TO BE PROVIDING READINGS ABOVE THE ACTUAL TEMPERATURES, DOES THE FIRM EVALUATE PRODUCTS PRODUCED USING THOSE THERMOMETERS?				
DESCRIBE THE FIRM'S PROCEDURES:				
IS THE THERMOMETER LOCATED WHERE IT IS EASY TO READ ACCURATELY?				
THE SENSOR BULB IS LOCATED IN THE				
DIAMETER OF OPENING FROM RETORT TO EXTERNAL WELL: BLEEDER SIZE:				
(OPENING <u>SHALL</u> BE AT LEAST 3/4-IN. DIA.) (BLEEDER <u>SHALL</u> BE AT LEAST 1/16-IN. DIA.)				
DOES THE BLEEDER EMIT STEAM CONTINUOUSLY DURING PROCESSING?				
IF A MUFFLER IS USED ON BLEEDER(S), WHAT EVIDENCE DOES THE FIRM HAVE THAT IT DOES NOT RESTRICT FREE FLOW OF STEAM?				
( <u>SHALL</u> REQUIREMENT – 113.87(g))				
IS THE MERCURY THERMOMETER USED AS THE REFERENCED INSTRUMENT DURING PROCESSING? Yes No (SHALL REQUIREMENT)				
TEMERATURE RECORDING DEVICE (113.40(c)(2))				
IS THE RETORT EQUIPPED WITH A TEMPERATURE RECORDING DEVICE?				

DO THE CHART SPECIFICATIONS MEET THE REQUIREMENTS OF PART 113.40(c)(2)?					
(GRADUATIONS ON THE TEMPERATURE-RECORDING DEVICE SHALL NOT EXCEED 2°F (1°C) WITHIN A RANGE OF 10°F (5.5°C) OF THE PROCESSING TEMPERATURE. EACH CHART SHALL HAVE A WORKING SCALE OF NOT MORE THAN 55°F/IN (12°C/CM) WITHIN A RANGE OF 20°F (10°C) OF THE PROCESSING TEMPERATURE – 113.40(b)(2). ALSO, SEE P. 14 OF LACF FIELD GUIDE - PART 2.)					
IS THE TEMPERATURE CHART ADJUSTED TO AGREE AS NEARLY AS POSSIBLE WITH BUT NOT HIGHER THAN THE KNOWN ACCURATE MERCURY-IN-GLASS THERMOMETER DURING THE PROCESSING PERIOD?					
(SHALL REQUIREMENT; NOTE ANY DIFFERENCE BETWEEN THE RECORDING THERMOMETER AND THE MERCURY-IN-GLASS THERMOMETER AND WHICH READING IS HIGHER.)					
IS THERE A MEANS FOR PREVENTING UNAUTHORIZED ADJUSTMENTS?					
(A MEANS OF PREVENTING UNAUTHORIZED CHANGES IN ADJUSTMENTS <u>SHALL</u> BE PROVIDED; A LOCK OR NOTICE FROM MANAGEMENT STATING "ONLY AUTHORIZED PERSONS ARE PERMITTED TO MAKE ADJUSTMENTS" & POSTED AT OR NEAR THE RECORDING DEVICE IS A SATISFACTORY MEANS FOR PREVENTING UNAUTHORIZED CHANGES.)					
IS THE CHART DRIVE TIMING MECHANISM ACCURATE?					
IS THE RECORDER COMBINED WITH A STEAM CONTROLLER?					
THE TEMPERATURE SENSING BULB IS INSTALLED IN THE					
(THE TEMPERATURE-RECORDER BULB <u>SHALL</u> BE INSTALLED EITHER WITHIN THE RETORT SHELL OR IN A WELL ATTACHED TO THE SHELL.)					
DOES THE TEMPERATURE RECORDER BULB WELL HAVE A 1/16-IN. DIA. OR LARGER BLEEDER THAT EMITS STEAM CONTINUOUSLY DURING THE PROCESSING PERIOD?					
IF A MUFFLER IS USED ON THE BLEEDER, DOES THE FIRM HAVE DOCUMENTED EVIDENCE THAT IT DOES NOT BLOCK THE FLOW OF STEAM?					
(SHALL REQUIREMENT – 113.87(g))					
PRESSURE GAGE (113.40(c)(3))					
IF A PRESSURE GAGE IS PRESENT ON THE RETORT COOKER SHELL, IS IT GRADUATED IN DIVISIONS OF 2 LBS. OR LESS?  Yes \( \subseteq \  \  \  \  \  \  \  \  \  \  \  \  \					
( <u>SHOULD</u> REQUIREMENT)					
IS THE PRESSURE COOLING SHELL EQUIPPED WITH A PRESSURE GAGE?					
IF THE COOKER SHELL IS CONNECTED BY TRANSFER VALVES TO A PRESSURE COOLING SHELL, IS THE PRESSURE IN THE COOLER LESS THAN THE PRESSURE IN THE COOKER?					
(THE PRESSURE IN THE PRESSURE COOLER SHOULD BE AT LEAST 2 PSIG LESS THAN THE PRESSURE IN THE COOKER TO PREVENT BACKFLOW OF COOLING WATER INTO THE COOKER.)					
STEAM CONTROLLER (113.40(c)(4))					
IS THE STEAM CONTROLLER AUTOMATIC?					
(EACH RETORT <u>SHALL</u> BE EQUIPPED WITH AN AUTOMATIC STEAM CONTROLLER TO MAINTAIN THE RETORT TEMPERATURE.)					

IS THE STEAM CONTROLLER TEMPERATURE OR PRESSURE ACTUATED?Temp. Press.
(THE STEAM CONTROLLER MAY BE ACTUATED BY A TEMPERATURE SENSOR POSITIONED NEAR THE MERCURY-IN-GLASS THERMOMETER; A STEAM CONTROLLER ACTIVATED BY THE STEAM PRESSURE OF THE RETORT IS ACCEPTABLE IF IT IS CAREFULLY MAINTAINED SO IT OPERATES SATISFACTORILY.)
REPORT THE MANUFACTURER, MODEL, TYPE AND SIZE OF THE AUTOMATIC STEAM CONTROL VALVE:
IF THE TEMPERATURE (STEAM) CONTROLLER IS AIR OPERATED, DOES THE SYSTEM HAVE AN ADEQUATE FILTER TO ASSURE A SUPPLY OF CLEAN, DRY AIR?
(AIR OPERATED TEMPERATURE CONTROLLERS <u>SHOULD</u> HAVE ADEQUATE FILTER SYSTEMS TO ASSURE A SUPPLY OF CLEAN, DRY AIR 113.40(C)(2).)
BLEEDERS (113.40(c)(5))
ARE BLEEDERS (EXCEPT THOSE FOR THERMOMETER WELLS) 1/8-INCH OR LARGER IN DIAMETER? Yes No
(SHALL REQUIREMENT)
ARE THESE BLEEDERS LOCATED ALONG THE TOP OF THE RETORT NO MORE THAN 8 FT. APART AND WITHIN APPROXIMATELY 1 FT. OF THE OUTERMOST LOCATION OF CONTAINERS AT EACH END?
(SHALL REQUIREMENT)
ARE THE BLEEDERS ARRANGED SO THE OPERATOR CAN OBSERVE THAT THEY ARE OPERATING PROPERLY?  Yes \( \subseteq \ No \subseteq \)
( <u>SHALL</u> REQUIREMENT)
ARE THE BLEEDERS WIDE OPEN DURING THE ENTIRE PROCESS INCLUDING THE COME-UP TIME?
IF A MUFFLER IS USED ON BLEEDERS, DOES THE FIRM HAVE DOCUMENTED EVIDENCE THAT IT DOES NOT RESTRICT FREE FLOW OF STEAM?
(SHALL REQUIREMENT – 113.87(G))
VENTING & CONDENSATE REMOVAL (113.40(c)(5&6))
IS THE RETORT VENTED TO REMOVE AIR PRIOR TO PROCESSING?
NUMBER OF VENTS: DIAMETER: LENGTH:
LOCATION:
WHAT IS THE TYPE OF VENT VALVE? Gate Plug Cock Other
IF OTHER, SPECIFY:
ARE VENTS FULLY OPEN DURING VENTING?
IF NO, EXPLAIN:
DOES THE FIRM HAVE ON FILE DOCUMENTARY PROOF DEMONSTRATING THAT ADEQUATE VENTING IS ACHIEVED?  Yes \( \subseteq \text{No} \subseteq \)
Yes NO (SHALL REQUIREMENT – 113.40(c)(6); HEAT DISTRIBUTION DATA AND/OR A LETTER FROM A COMPETENT PROCESS AUTHORITY DOCUMENTING THE LAST HEAT DISTRIBUTION TEST PERFORMED ON THE RETORT (DATE OF TEST, WHO PERFORMED THE TEST, THE RESULTING VENT SCHEDULE, ETC) WOULD BE ACCEPTABLE DOCUMENTATION.)

IS A STEAM BY-PASS VALVE USED DURING VENTING?
(NOTE: VENTING PROCEDURES AND ARRANGEMENTS MUST BE THE SAME AS USED DURING THE TEMPERATURE DISTRIBUTION STUDY THAT WAS CONDUCTED ON THE RETORT TO ESTABLISH THE VENT SCHEDULE.)
IF VENTS ARE EQUIPPED WITH MUFFLERS, SPECIFY TYPE AND PERFORMANCE CHARACTERISTICS. DOES THE FIRM HAVE DOCUMENTED EVIDENCE THAT THE MUFFLER ALLOWS ADEQUATE VENTING?
WHEN THE STEAM IS TURNED ON, IS THE DRAIN OPENED FOR A TIME SUFFICIENT TO REMOVE STEAM CONDENSATE FROM THE RETORT?
( <u>SHOULD</u> REQUIREMENT)
HAS PROVISION BEEN MADE FOR CONTINUAL OR AUTOMATIC DRAINAGE OF CONDENSATE DURING RETORT OPERATION?  Yes  No
( <u>SHALL</u> REQUIREMENT; A CONDENSATE TRAP OR BLEEDER LOCATED AT THE BOTTOM OF THE RETORT WOULD BE SUFFICIENT TO ASSURE CONTINUAL CONDENSATE REMOVAL.)
DESCRIBE THE PROCEDURES USED FOR CONDENSATE REMOVAL:
IS THE RETORT EQUIPPED WITH A CONDENSATE TRAP?
IS THERE A CONDENSATE BLEEDER IN THE BOTTOM OF THE RETORT SHELL THAT SERVES AS AN INDICATOR OF CONTINUOUS CONDENSATE REMOVAL?
IF SO, IS THIS BLEEDER VISIBLE TO THE RETORT OPERATOR?
DOES THIS CONDENSATE BLEEDER CONTINUOUSLY EMIT STEAM DURING THE THERMAL PROCESS? Yes No (SHALL REQUIREMENT)
IS THE CONDENSATE BLEEDER CHECKED WITH SUFFICIENT FREQUENCY DURING RETORT OPERATION TO ASSURE ADEQUATE REMOVAL OF CONDENSATE?
(SHALL REQUIREMENT)  ARE THESE OBSERVATIONS RECORDED AT THE TIME THEY ARE MADE?
(SHALL REQUIREMENT – 113.100(a))
IF THE CONDENSATE BLEEDER IS NOT VISIBLY MONITORED, IS IT EQUIPPED WITH AN AUTOMATIC ALARM SYSTEM THAT SERVES AS A CONTINUOUS MONITOR OF CONDENSATE FUNCTIONING?
(STALL REQUIREMENT)
IF AN AUTOMATIC ALARM IS USED TO MONITOR CONDENSATE FUNCTIONING, DOES IT WORK ADEQUATELY?  Yes \( \subseteq \text{No} \subseteq \)
RETORT SPEED TIMING (113.40(c)(7))
IS THE ROTATIONAL SPEED OF THE RETORT ADJUSTED AND RECORDED WHEN THE RETORT IS STARTED, AT ANY TIME A SPEED CHANGE IS MADE, AND AT INTERVALS OF SUFFICIENT FREQUENCY TO ENSURE THAT THE RETORT SPEED IS MAINTAINED AS SPECIFIED IN THE SCHEDULED PROCESS?

ARE THESE ADJUSTMENTS AND RECORDINGS MADE AT LEAST ONCE EVERY 4 HOURS?Yes No
( <u>SHOULD</u> REQUIREMENT)
IF NO, HOW OFTEN?
IF ROTATIONAL SPEED ADJUSTMENTS AND RECORDINGS ARE NOT MADE AT INTERVALS OF SUFFICIENT FREQUENCY, DOES THE FIRM HAVE A RECORDING TACHOMETER TO PROVIDE A CONTINUOUS RECORD OF THE RETORT SPEED?  Yes \( \subseteq \text{No } \subseteq \)
DOES THE FIRM HAVE A MEANS OF PREVENTING UNAUTHORIZED SPEED CHANGES ON THE RETORT? Yes No
( <u>SHALL</u> REQUIREMENT; A LOCK OR NOTICE FROM MANAGEMENT POSTED AT OR NEAR THE SPEED ADJUSTMENT DEVICE THAT PROVIDES A WARNING THAT ONLY AUTHORIZED PERSONS ARE PERMITTED TO MAKE ADJUSTMENTS, IS A SATISFACTORY MEANS OF PREVENTING UNAUTHORIZED CHANGES.)
Adjustment of the reel speed changes the process time and may affect the agitation of the product. The reel speed calculated to provide the process time would be entered on the FDA 2541a (Scheduled Process Filing Form) in Part D column titled "Reel Speed" in revolutions per minute (rpm). A minimum reel speed (slower than the reel speed providing adequate-processing time) may be determined during process establishment to provide for adequate product agitation. This minimum reel speed should be entered on Form 2541a, Part D in the column titled "Other" along with an explanation of "minimum reel speed". Minimum reel speeds for agitation may be less than the reel speed established for the process time. Reel speeds greater than the established reel speed for process time will shorten the process time. Reel speeds slower than the minimum reel speed for agitation, may not provide for adequate agitation of the product. In cases where a minimum reel speed for agitation is not identified by the processing source, determine if agitation is critical to the process. Note some processes are established without considering agitation. If agitation is critical to the process, the firm should have information that identifies the minimum rpm required to achieve adequate product agitation in the container. This reel speed may be the same as that established to provide for process time.
Reel speed and process time can be determined using the following formulas. To use these formulas, known values can be entered into the formula to determine unknown values or to check the values supplied by the firm on the process filing form. The capacity of the retort is normally stamped on the end of the cooker reel shaft. The approximate number of reel steps for the FMC system for each container size is provided in the table below. Please be aware that some reels may be altered. In some cases, the firm may process a smaller can size in a reel designed for a larger container (e.g. 300 in a 303 x 307 reel).
CONTAINER SIZE NUMBER OF STEPS PER TURN OF REEL
21156
300-30347
303-30742
401-40435
60324
DETERMINE THE REEL SPEED BY TIMING 10 REVOLUTIONS OF THE RETORT REEL AND REPORT RESULTS (IN SECONDS):
CALCULATE THE ACTUAL PROCESS TIME USING THE FORMULA:  SECONDS FOR 10 REVS = (10 RVS)X(60 SECS) X (REEL STEPS) X (PROCESS TIME)/CAPACITY
ACTUAL PROCESS TIME = MIN.
IS THE ACTUAL PROCESS TIME AT LEAST EQUAL TO THE MINIMUM PROCESS TIME FILED WITH FDA Yes No
CALCULATE THE PROCES SPEED IN CONTAINERS/MIN USING THE FORMULA:  CONTAINERS PER MINUTE = CAPACITY/PROCESS TIME (MIN)  CONTAINERS PER MINUTE =

7.77	
REEL SPEED (RPM) =	
IS THE REEL SPEED CALCULATED ABOVE AS CONTAINERS PER MINUTE AND/OR REVOLUTIONS FEQUAL TO THE MINIMUM REEL SPEED FILED WITH FDA?	
(IF NO, THE LOT COULD BE UNDER PROCESSED AND SHOULD BE HANDLED AS A PROCESS DEV	IATION.)
ALTERNATE FORMULAS WHICH CAN BE USED TO DETERMINE SECONDS FOR 10 REVOLUTIONS C	OF THE REEL:
(10 REV) X (60 SECS) X (#REEL STEPS)/(CPM)	
(10 RVS) X (60 SEC)/RPM	
EMERGENCY STOPS (113.40(c)(8)	
IF EMERGENCY STOPS ARE NOT OBSERVED DURING PROCESSING OR REVIEW OF RECORDS, AI QUESTIONS BY REVIEW OF WRITTEN SOPS OR INTERVIEW WITH MANAGEMENT. INDICATE HOW TOBTAINED:	
Processing Observation Review of Processing Records Review of Sops Interview	w with Management
IN THE CASE OF A JAM OR BREAK DOWN DURING PROCESSING OPERATIONS NECESSITATING COUNTRY THE RETORT OPERATED IN SUCH A WAY THAT ENSURES THAT THE PRODUCT IS COMMERCIALLY	STERILE?
(THIS CAN BE ACHIEVED BY REPROCESSING OR REPACKING & REPROCESSING.)	Yes  No
IF NO, IS THE PRODUCT DESCARDED?	Yes  No
( <u>SHALL</u> REQUIREMENTS)	
IF OPERATED AS A STILL RETORT, ARE ALL CONTAINERS GIVEN A FULL, STILL RETORT PROCESS IS COOLED?	
IF SO, IS THE STILL PROCESS SCHEDULE READILY AVAILABLE TO THE RETORT OPERATOR?	Yes No No
IF ANY CONTAINERS ARE IN THE RETORT INTAKE VALVE OR IN TRANSFER VALVES BETWEEN COO TIME OF BREAKDOWN, ARE THE CONTAINERS REPROCESSED, REPACKED AND REPROCESSED, (	OR DISCARDED?
(SHALL REQUIREMENT – $(113.40(c)(8)(i))$	Yes
IS BOTH THE TIME AT WHICH THE REEL STOPPED AND THE TIME THE RETORT WAS USED FOR A MARKED ON THE RECORDING CHART AND ENTERED ON OTHER PRODUCTION RECORDS? YE (SHALL REQUIREMENT – (113.40(c)(8)(ii))	
IF THE RETORT IS COOLED FOLLOWING AN EMERGENCY STOP, ARE SUBSEQUENT HANDLING ME CONTAINERS IN THE RETORT AT THE TIME OF STOPPING AND COOLING ENTERED ON PRODUCTI	ION RECORDS?
Ye $(SHALL REQUIREMENT - (113.40(c)(8)(ii))$	es No N/A

DESCRIBE ANY INCIDENCES OF EMERGENCY STOPS THAT WERE NOT HANDLED ACCORDING TO 113.40(c)(8):

TEMPERATURE DROPS (113.40(c)(9)			
IF TEMPERATURE DROPS ARE NOT OBSERVED DURING THE INSPECTION OR REVIEW OF PROCESSING RECORDS, ANSWER THE FOLLOWING QUESTIONS BY REVIEW OF THE FIRM'S SOPS OR INTERVIEW WITH MANAGEMENT. INDICATE HOW THIS INFORMATION WAS OBTAINED:			
Processing Observation  Review of Processing Records Review of Sops Interview with Management			
IF THE TEMPERATURE OF THE RETORT DROPS BELOW THE TEMPERATURE SPECIFIED IN THE SCHEDULED PROCESS WHILE CONTAINERS ARE IN THE RETORT, IS THE REEL STOPPED PROMPTLY?			
IF YES, IS AN AUTOMATIC DEVICE USED TO STOP THE REEL?			
BEFORE THE RETORT IS RESTARTED, ARE ALL CONTAINERS IN THE RETORT GIVEN A COMPLETE SCHEDULED STILL RETORT PROCESS IF THE TEMPERATURE DROP WAS 10°F OR MORE BELOW THE SPECIFIED TEMPERATURE?			
Yes No No N/A			
IF YES, ARE BOTH THE TIME AT WHICH THE REEL STOPPED AND THE TIME THE RETORT WAS USED FOR A STILL RETORT PROCESS MARKED ON THE RECORDING CHART AND OTHER PRODUCTION RECORDS? Yes $\  \  \  \  \  \  \  \  \  \  \  \  \ $			
( <u>SHALL</u> REQUIREMENTS)			
ALTERNATIVELY, IF THE TEMPERATURE DROP IS 10°F OR MORE, IS CONTAINER ENTRY TO THE RETORT STOPPED AND THE REEL RESTARTED TO EMPTY THE RETORT?			
IF YES, ARE THE DISCHARGED CONTAINERS EITHER:			
Reprocessed  Reprocessed , or Discarded ?			
ARE SUBSEQUENT HANDLING METHODS USED FOR CONTAINERS IN THE RETORT AT THE TIME OF THE TEMPERATURE DROP ENTERED ON PRODUCTION RECORDS?			
( <u>SHALL</u> REQUIREMENTS)			
IF THE TEMPERATURE DROP IS LESS THAN 10°F, IS THE PRODUCT GIVEN AN AUTHORIZED EMERGENCY STILL PROCESS BEFORE RESTARTING THE RETORT REEL?			
IS CONTAINER ENTRY INTO THE RETORT STOPPED AND AN AUTHORIZED EMERGENCY AGITATING PROCESS USED BEFORE CONTAINER ENTRY TO THE RETORT IS RESTARTED?Yes No			
( <u>SHALL</u> REQUIREMENTS)			
DURING AN EMERGENCY AGITATING PROCESS, ARE CONTAINERS PREVENTED FROM ENTERING THE RETORT?  Yes  No  N/A			
WHEN EMERGENCY PROCEDURES ARE USED, ARE PROCESSES AND PROCEDURES NOTED ON PRODUCTION RECORDS?  Yes No N/A			

DESCRIBE ANY INCIDENCES OF TEMPERATURE DROPS THAT WERE NOT HANDLED ACCORDING TO 113.40(C)(9):